

APPENDIX IV

LAND USE/LAND COVER	AREAS IN HUC-12 SUBWATERSHEDS (ACRES)		
	0106	0107	0108
Bare Rock/Sand/Clay		11	80
Deciduous Forest	13,684	25,469	23,528
Developed Open Space	693	1,501	3,601
Emergent Herbaceous Wetlands			
Evergreen Forest	1,376	3,801	1,781
Grassland/Herbaceous	80	226	703
High Intensity Development			187
Low Intensity Development	134	66	1,522
Medium Intensity Development		8	492
Mixed Forest	805	2,900	1,571
Open Water	8		124
Pasture/Hay	337	3,036	8,792
Row Crops	7	24	514
Shrub/Scrub	132	241	459
Woody Wetlands	45	83	210
Total	17,301	37,366	43,564

Table A4-1 Land Use Distribution in the Tennessee Portion of the Pigeon River Watershed by HUC-12. Data are from 2001 Multi-Resolution Land Characterization (MRLC) derived by applying a generalized Anderson Level II system to mosaics of Landsat thematic mapper images collected every five years.

HYDROLOGIC SOIL GROUPS
GROUP A SOILS have low runoff potential and high infiltration rates even when wet. They consist chiefly of sand and gravel and are well to excessively drained.
GROUP B SOILS have moderate infiltration rates when wet and consist chiefly of soils that are moderately deep to deep, moderately to well drained, and moderately coarse to coarse textures.
GROUP C SOILS have low infiltration rates when wet and consist chiefly of soils having a layer that impedes downward movement of water with moderately fine to fine texture.
GROUP D SOILS have high runoff potential, very low infiltration rates, and consist chiefly of clay soils.

Table A4-2. Hydrologic Soil Groups in Tennessee as Described in WCS. Soils are grouped into four hydrologic soil groups that describe a soil's permeability and, therefore, its susceptibility to runoff.

STATION	LOCATION	HUC 12	AREA (SQ MILES)	LOW FLOW (CFS)		
				1Q10	7Q10	3Q20
03461000	Pigeon River	060101060106	547.00			
03461200	Cosby Creek	060101060107	10.20	2.05	2.31	1.70
03461500	Pigeon River	060101060108	666.00	197.69	202.26	169.47

Table A4-3. United States Geological Survey Continuous Record Gaging Stations in the Tennessee Portion of the Pigeon River Watershed. Additional information may be found at: <http://water.usgs.gov/osw/streamstats/>

AGENCY	STATION	LOCATION	HUC 12
TDEC	2060	Pigeon River @ RM 24.6	060101060106
TDEC	2080	Pigeon River	060101060106
TDEC	2081	Pigeon River @ RM 20.4	060101060106
USEPA	471040	Pigeon River	060101060106
TVA	475421	Pigeon River @ RM 24.8	060101060106
TVA	475976	Pigeon River @ RM 21.3	060101060106
TVA	476125	Pigeon River @ RM 21.4	060101060106
NCDENR-DWQ (2nd)	E6500000	Pigeon River	060101060106
TDEC	PIGEO023.7CO	Pigeon River	060101060106
USEPA	471055	Cosby Creek	060101060107
TVA	475448	Cosby Creek @ RM 1.88	060101060107
TVA	476494	Cosby Creek @ RM 13.42	060101060107
EPA Environmental Resource Lab	2A07805L	Cosby Creek	060101060107
EPA Environmental Resource Lab	2A07805U	Cosby Creek	060101060107
EPA Environmental Resource Lab	2A07891L	Cosby Creek	060101060107
TDEC	COSBY001.8CO	Cosby Creek	060101060107
TDEC	COSBY008.0CO	Cosby Creek	060101060107
EPA National Aquatic Resource Survey	OWW04440-0164	Cosby Creek	060101060107
TDEC	2085	Pigeon River	060101060108
TDEC	2086	Pigeon River	060101060108
USEPA	3351	Pigeon River	060101060108
USEPA	3404	Pigeon River	060101060108
USEPA	471010	Pigeon River	060101060108
USEPA	471015	Pigeon River	060101060108
USEPA	471020	Pigeon River	060101060108
USEPA	471025	Pigeon River	060101060108
USEPA	471030	Pigeon River	060101060108
USEPA	471035	Pigeon River	060101060108
USEPA	471045	Sinking Creek	060101060108
USEPA	471050	Sinking Creek	060101060108
USEPA	471060	Pigeon River	060101060108
USEPA	471065	Pigeon River	060101060108
USEPA	471070	Pigeon River	060101060108
USEPA	471075	Pigeon River	060101060108
USEPA	471080	Pigeon River	060101060108
USEPA	471085	Pigeon River	060101060108
USEPA	471090	Pigeon River	060101060108
USEPA	471095	Pigeon River	060101060108
USEPA	471100	Pigeon River	060101060108
TVA	475087	Pigeon River @ RM 6.8	060101060108
TVA	475449	Sinking Creek @ RM 0.04	060101060108
TVA	475507	Sinking Creek @ RM 4.10	060101060108
TVA	475508	Sinking Creek @ RM 2.31	060101060108
TVA	475980	Pigeon River @ RM 3.4	060101060108

Table A4-4a

AGENCY	STATION	LOCATION	HUC 12
TVA	476424	Pigeon River @ RM 13.8	060101060108
TVA	476425	Pigeon River @ RM 0.8	060101060108
TVA	477149	Pigeon River @ RM 5.5	060101060108
TVA	477171	Pigeon River @ RM 8.0	060101060108
TVA	477172	Pigeon River @ RM 16.0	060101060108
USEPA	470228A	Newport Water Supply Pump Station	060101060108
EPA National Aquatic Resource Survey	OWW04440-0292	Sinking Creek	060101060108
TDEC	PIGEON005.5	Pigeon River @ RM 5.5	060101060108
TDEC	SINKI1T0.8CO	UT @ RM 0.8 to Sinking Creek	060101060108
TDEC	SINKI1T1.0CO	UT @ RM 1.0 to Sinking Creek	060101060108

Table A4-4b.

Table A4-4a-b. STORET Water Quality Monitoring Stations in the Tennessee Portion of the Pigeon River Watershed. TDEC Tennessee Department of Environment and Conservation; TVA, Tennessee Valley Authority; USEPA, United States Environmental Protection Agency; UT, Unnamed Tributary.

PERMIT NUMBER	COUNTY	DESCRIPTION	WATERBODY	HUC-12
NRS05.246	Cocke	Construction and Removal of Retaining Wall	Pigeon River	060101060106
NRS05.331	Cocke	Bank Stabilization	Groundhog Creek	060101060106
NR0603.238	Cocke	Utility Line Crossing	Pigeon River	060101060106
NR0603.225	Cocke	Bridge and Approaches	Indian Camp Creek	060101060107
NRS05.330	Cocke	Bank Stabilization	Bogard Creek	060101060107
NRS06.188	Cocke	Bridge and Approaches	UT to Indian Camp Creek	060101060107
NRS06.078	Cocke	Bridge and Approaches	Indian Camp Creek	060101060107
NRS06.078B	Cocke	Bridge and Approaches	Indian Camp Creek	060101060107
NRS02.175A	Cocke	Road Crossings	Sinking Creek	060101060108
NRS02.175B	Cocke	Road Crossings	UT to Sinking Creek	060101060108
NRS02.328	Cocke	Bridge and Approaches	Sinking Creek	060101060108
NRS03.390	Cocke	Bridge and Approaches	English Creek	060101060108

Table A4-5 ARAPs (Aquatic Resource Alteration Permit) issued June 2002 through June 2007 in the Tennessee portion of the Pigeon River Watershed. UT, Unnamed Tributary.

PERMIT NUMBER	COUNTY	PERMITEE: DISCRIPTION	AREA	WATERBODY	HUC-12
TNR132312	Cocke		6.60	UT to Pigeon River, Huskycamp Branch, Richtop Branch, Mill Creek, Cripple Creek, & Weaver Branch	060101060106
TNR190529	Cocke	TDOT: I40 Slide Repair	1.40	UT to Pigeon River & Pigeon River	060101060106
TNR132371	Cocke	Maranatha Investments, LLC: Maranatha Resort	31.82	Webb Branch& Cosby Creek	060101060107
TNR190577	Cocke	TDOT: SR 32 Small Structure Repair and Replacement	2.02	UT to Cosby Creek	060101060107
TNR190676	Cocke	TDOT: Indian Camp Creek Road Bridges and Approaches	3.20	Indian Camp Creek	060101060107
TNR190681	Cocke	TDOT: Indian Camp Creek Road Bridges and Approaches	1.61	Indian Camp Creek	060101060107
TNR131753	Cocke	Schenectady International, Inc.: Chemical Manufacturing	2.00	Little Pigeon River	060101060108
TNR132233	Cocke	Mason Realty Company: Flatwood Estates	7.50	UT to Pigeon River	060101060108
TNR190221	Cocke	TDOT: Carson Springs Road Bridges and Approaches	1.42	Sinking Creek	060101060108
TNR190259	Cocke	TDOT: Carson Springs Road Bridges and Approaches	1.31	Sinking Creek	060101060108
TNR190302	Cocke	TDOT: Carson Springs Road Bridges and Approaches	1.60	Sinking Creek	060101060108
TNR132031	Cocke	Copeland Properties, Inc.: Walgreens and Long John Silver's	2.98	Pigeon River	060101060108

Table A4-6. CGPs (Construction General Permits) issued June 2002 through June 2007 in the Tennessee portion of the Pigeon River Watershed. .UT, Unnamed Tributary; Area, Acres of property associated with construction activity.

PERMIT NUMBER	PERMITEE	SIC	SIC NAME	WATERBODY	HUC-12
TN0063100	Newport Sand & Gravel, Inc.	1442	Construction Sand and Gravel	Pigeon River & Wilton Spring Creek	060101060108
TN0072311	Vulcan Construction Materials, LP: Newport Quarry	1422	Crushed and Broken Limestone	UT to Pigeon River	060101060108

Table A4-7. Permitted Mining Facilities in the Tennessee Portion of the Pigeon River Watershed. SIC, Standard Industrial Classification; MADI, Major Discharge Indicator; UT Unnamed Tributary.

PERMIT NUMBER	PERMITTEE	SIC	SIC NAME	MADI	WATERBODY	HUC-12
TN0065072	TDOT- I40 Rest Area	4952	Sewerage Systems	Minor	Pigeon River @ RM 20.7	060101060106
TN0054879	Cosby School	4952	Sewerage Systems	Minor	Cosby Creek @ RM 4.3	060101060107
TN0002003	Ace Products, Inc.	3069	Fabricated Rubber Products	Minor	WWC to Pigeon River @ RM 0.5	060101060108
TN0020702	Newport STP	4952	Sewerage Systems	Major	Pigeon River @ RM 4.0	060101060108
TN0003735	Sonoco Products Newport	2631 & 2655	Paperboard Mills & Fiber Cans, Tubes, Drums and Similar Products	Minor	Pigeon River @ RM 0.9 & 1.0	060101060108
TN0055425	Newport Properties STP	4952	Sewerage Systems	Minor	UT @ RM 0.2 to Pigeon River @ RM 0.5	060101060108

Table A4-8. Municipal and Industrial Permittees in the Tennessee Portion of the Pigeon River Watershed. SIC, Standard Industrial Code; MADI, Major Discharge Indicator; WWC, Wet Weather Conveyance; UT, Unnamed Tributary.

PERMIT NUMBER	PERMITTEE	WATERBODY	HUC-12
TNG110098	Erby Contractors, Inc.	WWC to Pigeon River	060101060108
TNG110137	Newport Paving and Ready Mix	Sinking Creek to Pigeon River	060101060108
TNG110097	Newport Ready Mix	Pigeon River	060101060108

Table A4-9. RMCP (Ready Mix Concrete Plant) Permittees in the Tennessee Portion of Pigeon River Watershed. WWT, Wet Weather Conveyance.

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PERMIT NUMBER	PERMITTEE	SECTOR	RECEIVING STREAM	AREA	HUC-12
TNR053915	Squirrel Mountain Stone	J	Pigeon River	5.00	060101060107
TNR054378	Tennessee Extrusions, LLC	Y	Cosby Creek to Pigeon River	0.22	060101060107
TNR054559	Five Arts Studio, Inc	V	Indian Camp Creek	0.00	060101060107
TNR051446	Casey's Used Auto Parts	M	UT to Allen Creek to Dougas Lake	0.80	060101060108
TNR055955	Asphalt Plant #2	D	Pigeon River	3.66	060101060108
TNR056799	Charles Blalock and Sons, Inc. Asphalt Plant #2	D	Pigeon River @ RM 14	3.50	060101060108
TNR051892	Conagra Foods Grocery Products Company	U	Pigeon River	15.30	060101060108
TNR054065	Detroit Gasket A Freudenberg-NOK Company	Y	Sinking Creek to Pigeon River	7.00	060101060108
TNR051034	Eastern Plating, Inc.	AA	Sinking Creek to Pigeon River	10.00	060101060108
TNR051398	Evans Honda Specialists	M	UT to Morell Springs Branch	8.00	060101060108
TNR055988	H-1 Auto Parts	M	Ball Creek @ RM 0.5	3.00	060101060108
TNR056139	H-1 Auto Parts	M	Ball Creek @ RM 0.5	7.00	060101060108
TNR055985	Lisega, Inc.	AA	Pigeon Forge @ RM 4.25	23.89	060101060108
TNR056622	Rolling Frito-Lay Sales, LP Newport Bin	P	Metropolitan Storm Sewer to Morell Springs Branch to Pigeon River	0.90	060101060108
TNR050768	SI Group, Inc.	C	Sinking Creek	60.00	060101060108
TNR056850	Siemens Water Technologies Corporation	D	UT to Sinking Creek to Pigeon River	29.80	060101060108
TNR055894	Sonoco Products Company	B	Pigeon River	11.70	060101060108
TNR050684	Wood Products Company	A	Pigeon River	4.20	060101060108

Table A4-10. TMSPs (Tennessee Multi Sector Permit) issued in the Tennessee Portion of the Pigeon River Watershed. Area, Acres associated with industrial activity; UT, Unnamed Tributary. See Table A4-11 for Sector Details.

SECTOR	TMSP SECTOR NAME
A	Timber Products Facilities
AA	Facilities That Manufacture Metal Products including Jewelry, Silverware and Plated Ware
AB	Facilities That Manufacture Transportation Equipment, Industrial or Commercial Machinery
AC	Facilities That Manufacture Electronic and Electrical Equipment and Components, Photographic and Optical Goods
AD	Facilities That Are Not Covered Under Sectors A Thru AC (Monitoring Required)
AE	Facilities That Are Not Covered Under Sectors A Thru AC (Monitoring Not Required)
B	Paper and Allied Products Manufacturing Facilities
C	Chemical and Allied Products Manufacturing Facilities
D	Asphalt Paving, Roofing Materials, and Lubricant Manufacturing Facilities
E	Glass, Clay, Cement, Concrete, and Gypsum Product Manufacturing Facilities
F	Primary Metals Facilities
G	Metal Mines (Ore Mining and Dressing) (RESERVED)
H	Inactive Coal Mines and Inactive Coal Mining-Related Facilities
I	Oil or Gas Extraction Facilities
J	Construction Sand and Gravel Mining and Processing and Dimension Stone Mining and Quarrying Facilities
K	Hazardous Waste Treatment Storage or Disposal Facilities
L	Landfills and Land Application Sites
M	Automobile Salvage Yards
N	Scrap Recycling and Waste and Recycling Facilities
O	Steam Electric Power Generating Facilities
P	Vehicle Maintenance or Equipment Cleaning areas at Motor Freight Transportation Facilities, Passenger Transportation Facilities, Petroleum Bulk Oil Stations and Terminals, the United States Postal Service, or Railroad Transportation Facilities
Q	Vehicle Maintenance Areas and Equipment Cleaning Areas of Water Transportation Facilities
R	Ship or Boat Building and Repair Yards
S	Vehicle Maintenance Areas, Equipment Cleaning Areas or From Airport Deicing Operations located at Air Transportation Facilities
T	Wastewater Treatment Works
U	Food and Kindred Products Facilities
V	Textile Mills, Apparel and other Fabric Product Manufacturing Facilities
W	Furniture and Fixture Manufacturing Facilities
X	Printing and Platemaking Facilities
Y	Rubber and Miscellaneous Plastic Product Manufacturing Facilities
Z	Leather Tanning and Finishing Facilities

Table A4-11. TMSP Sectors and Descriptions.